

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/063349 A2

(51) International Patent Classification⁷: **A63H 17/267**,
29/00

(21) International Application Number:
PCT/EP2004/014734

(22) International Filing Date:
21 December 2004 (21.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI2003A 002577
23 December 2003 (23.12.2003) IT

(71) Applicant and
(72) Inventor: **ACCERENZI, Valerio** [IT/IT]; Via Galanti, 43,
I-25020 Bassano Bresciano (Brescia) (IT).

(74) Agents: **COLOMBO, Stefano, Paolo et al.**; Marchi &
Partners S.r.l., Via Pirelli, 19, I-20124 Milano (IT).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,

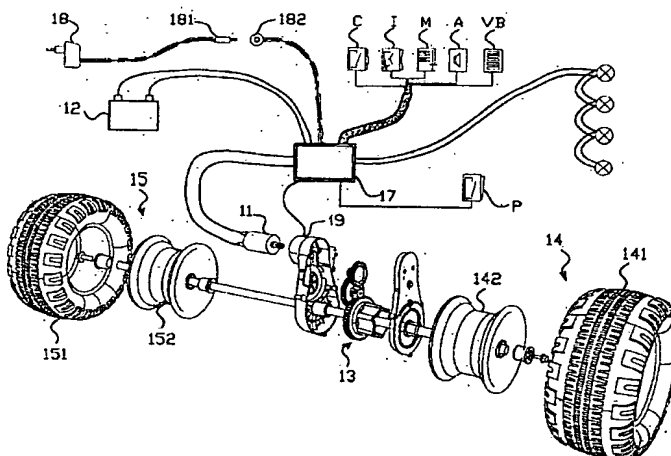
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished
upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: **ELECTRIC TOY VEHICLE WITH IMPROVED GRIP**



(57) Abstract: An electric toy vehicle is described, said vehicle comprising: an electric motor, a speed reducer, a power supply battery for powering said electric motor and moving the vehicle, and at least two wheels, at least one of which is the driving wheel, at least one of the wheels having a coefficient of friction greater than about 0.35. Conveniently, the wheels of the vehicle comprise a rubber carcass with at least two cross plies of nylon threads. Conveniently, the vehicle also comprises an electronic control system for performing a plurality of functions including that of regulating the power supply voltage to the motor, regulating the acceleration independently of the load transported; regulating the deceleration independently of the load transported; managing the motor brake; controlling the direct-current flow, preventing peak currents affecting the motor, disabling the functions of the vehicle at predefined overload values; limiting complete discharging of the battery and indicating the charging state of the battery.



WO 2005/063349 A2